

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

10/669,162
Itho
2/29/04

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 02/24/2004

PATENT APPLICATION: US/10/669,162

TIME: 14:54:25

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

3 <110> APPLICANT: Breaker, Ronald R.
 4 Nahvi, Ali
 5 Sudarsan, Narasimhan
 6 Ebert, Margaret S.
 7 Winkler, Wade
 8 Barrick, Jeffrey E.
 9 Wickiser, John K.
 12 <120> TITLE OF INVENTION: RIBOSWITCHES; METHODS FOR THEIR USE, AND
 13 COMPOSITIONS FOR USE WITH RIBOSWITCHES
 15 <130> FILE REFERENCE: 25006.0016U2
 17 <140> CURRENT APPLICATION NUMBER: 10/669,162
 18 <141> CURRENT FILING DATE: 2003-09-22
 20 <150> PRIOR APPLICATION NUMBER: 60/412,468
 21 <151> PRIOR FILING DATE: 2002-09-20
 23 <160> NUMBER OF SEQ ID NOS: 377
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

1918 <210> SEQ ID NO: 112
 1919 <211> LENGTH: 486
 1920 <212> TYPE: RNA
 1921 <213> ORGANISM: Bacillus subtilis
 1923 <220> FEATURE:
 1924 <221> NAME/KEY: misc_feature
 1925 <222> LOCATION: (21)...(307)
 1926 <223> OTHER INFORMATION: n = g, a, c or t/u
 1928 <400> SEQUENCE: 112

E--> 1929 ataccgcgac ataccgaagag nnaagcaga gggannctgg nnnncccgac gaagcnnnc 60
 E--> 1930 agcaaccggt gtaattggcnn nnnnnnnnnn nngatcann nnnnnnnnnn 120
 E--> 1931 nnnnnnnnnn nnnnnngccat gaccaagggtg ttaaatncca gnnnnnncaa gctnnnnnnn 180
 E--> 1932 nnnncgaaca nnnnnnnnnn ngcttgggaag ataagaagag acaaaatcac tgacaaannn 240
 E--> 1933 nnnnnnnnnn nnnnnnnnnn nnnnnnnnct gttetnnnnn nnnnnnnnnn dttnnnnnnn 300
 E--> 1934 nnnnnnnaag aggaattttt tatttctatt ttttccttgc ttttttgaat aaaggaggca 360
 E--> 1935 gacaatggga dttttagaag atttgcaaag acaggttta acggctgacg ggcctatggg 420
 E--> 1936 gacgttctc ttttctatg gcattgacag ttgtttttag gagcttaata tttcaaagcc 480
 1937 ggagga 486

1939 <210> SEQ ID NO: 113
 1940 <211> LENGTH: 486
 1941 <212> TYPE: RNA
 1942 <213> ORGANISM: Bacillus subtilis
 1944 <220> FEATURE:

Does Not Comply
 Corrected Diskette Needed
 (pg. 1-6)

NO "Es" are allowed
 in a RNA
 sequence.

For a combined
 DNA/RNA sequence
 please use a <212>
 response of "DNA" and
 explain in
 (2207-2237)
 section.

RAW SEQUENCE LISTING

DATE: 02/24/2004

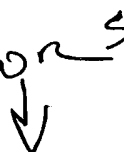
PATENT APPLICATION: US/10/669,162

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1945 <221> NAME/KEY: misc_feature
 1946 <222> LOCATION: (21)...(305)
 1947 <223> OTHER INFORMATION: n = g, a, c or u
 1949 <400> SEQUENCE: 113

SAME errors


E--> 1950 tcgatatttc ttatcgtgag nnnaggtgga gggannctgg nnnccctta gaaacctnnc 60
 E--> 1951 agcaaccggc ttgttttgc nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
 E--> 1952 nnnnnnnnnn nnnngcaaag cgccaaggtg ctaaattcca gnnnnnncaa gcgtnnnnnn 180
 E--> 1953 nnnntttttt nnnnnnnnna tgcttgaag ataagaagaa gcgttaaann nnnnnnnnnn 240
 E--> 1954 nnnnnnnnnn nnnnnnnnnn nnnnnnncc ccttcttcnn nnnnnnnnt tatnnnnnnn 300
 E--> 1955 nnnnngaaga aggggttttt attttgaaaa gggaaggtgt cagctatatg tcacagcacg 360
 E--> 1956 ttgaaacgaa attagctcaa attgggaacc gtagcgatga agtcacggga acagtgaagt 420
 E--> 1957 ctctatatcta tttatcaaca gcataccgcc acagagggat cggagaatct accggatttg 480
 E--> 1958 attatg 486

1960 <210> SEQ ID NO: 114

1961 <211> LENGTH: 486

1962 <212> TYPE: RNA

1963 <213> ORGANISM: Bacillus subtilis

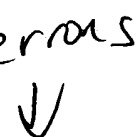
1965 <220> FEATURE:

1966 <221> NAME/KEY: misc_feature

1967 <222> LOCATION: (21)...(304)

1968 <223> OTHER INFORMATION: n = g, a, c or u

1970 <400> SEQUENCE: 114

SAME errors


E--> 1971 acattttctc ttatcgagag nnttgggcga gggannttgg nnnccctttt gaccccaanc 60
 E--> 1972 agcaaccgac cnnnnnnngta ataccattgt gaaatggggc gcaactgttt tcgcgccgag 120
 E--> 1973 actgatgtct cataannnnn nggcacgggtg ctaattcca tnnnnnnnag atnnnnnnnn 180
 E--> 1974 nnnntgttnn nnnnnnnnnn ngtctgagag atgagagagg cagtgtttta cgtagaaaan 240
 E--> 1975 nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctctttctcn nnnnnnnnt catnnnnnnn 300
 E--> 1976 nnnngggaaa gaggtttttt gttgtgagaa aacctcttag cagcctgtat ccgcgggtga 360
 E--> 1977 aagagagtgt tttacatata aaggaggaga aacaatgaca accatcaaaa catcgaattt 420
 E--> 1978 aggatttccg agaatcgacc tgaaccggga atggaaaaaa gcacttgaag cgtattggaa 480
 1979 aggcag 486

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY

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Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0

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M:341 Repeated in SeqNo=31

L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

L:1718 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98

L:1929 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10

L:1930 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4

L:1930 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14

L:1931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5

L:1931 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:19

L:1932 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5

L:1932 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24

L:1933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1933 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31

L:1934 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:22

L:1934 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:53

L:1935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14

L:1935 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:67

L:1936 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:18

L:1936 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:85

L:1950 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14

L:1951 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9

L:1951 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:23

L:1952 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4

L:1952 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27

L:1953 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1953 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38

L:1954 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1954 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:45

L:1955 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1955 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:60

L:1956 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12

L:1956 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:72

L:1957 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1957 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:87

L:1958 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3

L:1958 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:90

L:1971 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:16

L:1972 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1972 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27

L:1973 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1973 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38

L:1974 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1974 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:49

L:1975 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1975 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56

L:1976 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1976 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:71

L:1977 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13

L:1977 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:84

L:1978 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

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L:1978 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:95
L:1992 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:17
L:1993 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:1993 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31
L:1994 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:1994 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:43
L:1995 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:1995 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:51
L:1996 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:1996 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:57
L:1997 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
L:1997 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:76
L:1998 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
L:1998 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:89
L:1999 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:1999 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:101
L:2013 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10
L:2014 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3
L:2014 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
L:2015 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
L:2015 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
L:2016 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2016 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24
L:2017 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:2017 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:30
L:2018 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2018 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:47
L:2019 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
L:2019 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56
L:2020 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:2020 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:68
L:2021 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:2021 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:69
L:2034 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:9
L:2035 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2035 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
L:2036 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
L:2036 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
L:2037 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2037 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:34
L:2038 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:2038 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:40
L:2039 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
L:2039 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:59
L:2040 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2040 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:73
L:2041 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
L:2041 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:86
L:2056 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3

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L:2057 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2058 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
L:2059 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2060 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2061 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14